



## **BLUEPRINT SMART GAS TROLLEY**

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## **1.0 EXECUTIVE SUMMARY**

Smart Gas Trolley or SGT is what known as hi-tech where the simplest design with great technology use behind it make people wonder how does it work and why does it work. SGT is born through the idea to make consumer's life become much easier and relax. SGT actually is the combination of normal everyday life such as shopping cart trolley and robot vacuum cleaner. It does look simple and timid but it actually robust and stronger than it actual looks.

As consumer of natural gas cylinder aware, bringing the gas cylinder is actually harder than it seems and not everyone have energy to deliver it manually such as lifting with hand or even using trolley is consider quite tough as it not only heavy but take up much more space than it actually does. As matter of fact, there are some complaint rises to manufacturer of gas cylinder to change the design by making it more lighter or reduce the size but they said that it not possible as changing the design might exposing to the highest probability to gas leaking and even worse explosion. Thus, the only solution that can be made is creating an easy transportation device to consumer.

Lucky for you, SGT not only saving space, but it also can be used for many years with the material it use is sturdy and high quality. What makes SGT a brilliant design is it can be handle wireless meaning by only using your smart phone you can easily access the SGT and controlling as you please. As mention before, the technology it used came from robot vacuum cleaner to make it move smoothly avoiding obstacles upon route to desire location. We also include the detection location so if consumer lost their SGT, they can track down them easily within 10 km radius. Besides, we focus more on the design where to minimizes the spaces yet can hold the gas cylinder comfortably by providing four wheels where the wheels is made of combination of synthetic rubber and natural rubber. The combination of the rubber is actual used in big truck or tractor make it has more grip to the surfaces next make it stable. Then, most importantly consumer does not need to carry the gas cylinder or even monitoring them continuously, with SGT all of that can be solve.

Here SGT is known as smart design as it helping to ease the burden in everyday lives. That means, SGT is one of the must smart device that people need now. SGT status is not in trial stage anymore as we already enhance the problem arises with many prototypes before it and obtain feedback upon trial period. Every time, feedbacks were taken, we made an improvement to it. Thus, we can safely claim SGT is the final yet best product in the market for wise buyer can afford.

If consumer ready to give our product a try, we are ready to take you there and you can easily impress on how convenient it is. Hence, keep reaching for SGT unconsciously.

This blueprint outlines in more detail how we will do it and what you can expect along the way. But we guaranteed that your biggest expectation should be one of success.

Let us make it happen. Let us get SGT to make everyday life convenience that it already is.

## **2.0 PRODUCT DESCRIPTION**

In modern era, natural gas is one of the best options of fuel can use to cook. Also, there are high demand of natural gas as it provides cleaner burning and reduce pollution compared to coal. However, as the demand is high but the way to deliver it to consumer home is the main problem where the its need to be carried miles and may lead to damage to gas cylinder or danger to people surrounding. Thus, our invention comes into play to ease the burden and hoping to solve the issue. In order to solve it, many attempts and testing have been made to reach to this point. Finally, the final product has been create and ready to enter the market.

### **2.1 PURPOSE OF SMART GAS TROLLEY**

Smart Gas Trolley (SGT)'s main purposes of creation are to help mostly elderly who suffer from bad spinal cord or consumer who are not having enough endurance to take the gas cylinder to their home.

### **2.2 UNIQUE FEATURE**

The SGT has the ability to analyze the obstacle and avoid it then it successfully moves the gas cylinder with minimum human interaction. The technology behind it comes from the idea of robot vacuum cleaner but with better decision making analysis and fastest action taken. Although for this moment, SGT only can move in the premise only but further discussion has been to make so that it can be deliver from some place to other place.

Out SGT consists of three important parts which are:-

#### **1) The motherboard**

The motherboard functions to store the vital components to run the program such as hard disk, capacitor, transistor and many more.